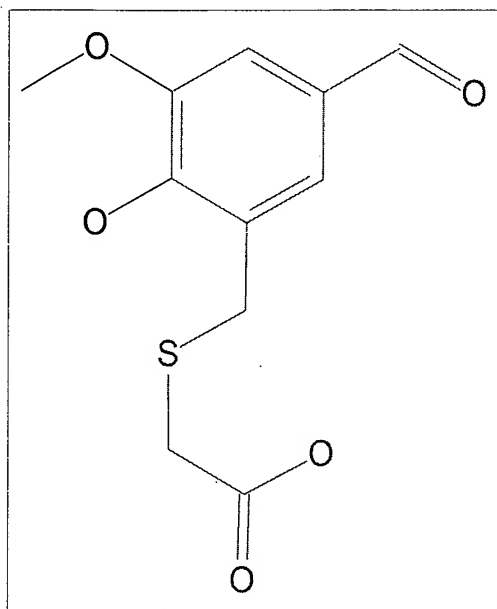


EXHIBIT B



Substance Identification

Beilstein Registry Number	6654842
Chemical Name	(5-formyl-2-hydroxy-3-methoxy-benzylsulfanyl)-acetic acid
Autoname	(5-formyl-2-hydroxy-3-methoxy-benzylsulfanyl)-acetic acid
Molecular Formula	C ₁₁ H ₁₂ O ₅ S
Molecular Weight	256.27
Lawson Number	9659, 1774, 289
Type of Substance	isocyclic
Constitution ID	5733058
Tautomer ID	6297891
Beilstein Reference	6-08

Field Availability List 1-4

Code	Field Name	Occ.
<u>RX</u>	Reaction	2
<u>MP</u>	Melting Point	1
<u>NMR</u>	NMR Spectroscopy	2
<u>CNR</u>	Reference	1

Reaction 1 of 2

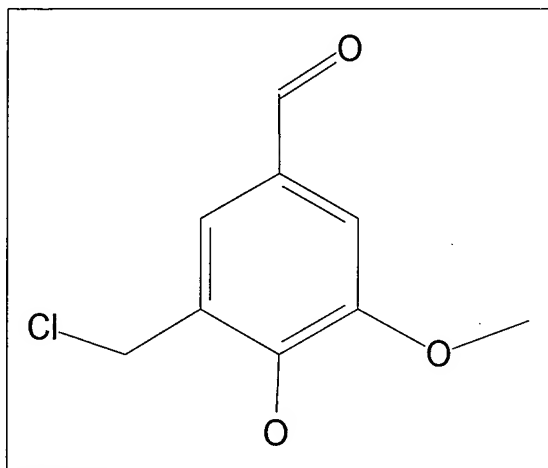
Reaction ID	2901564
Reactant BRN	2454332 3-chloromethyl-4-hydroxy-5-methoxy-benzaldehyde
	506166 mercaptoacetic acid
Product BRN	6654842 (5-formyl-2-hydroxy-3-methoxy-benzylsulfanyl)-acetic acid
No. of Reaction Details	1
Reaction Classification	Preparation
Yield	7 percent (BRN=6654842)
Reagent	Et ₃ N
Solvent	CH ₂ Cl ₂
Time	3 hour(s)
Other Conditions	Ambient temperature

Find similar reactions

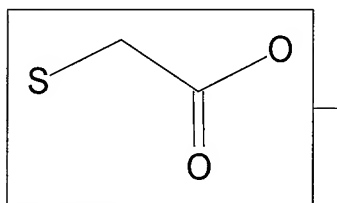
[click here](#)

Ref. 1

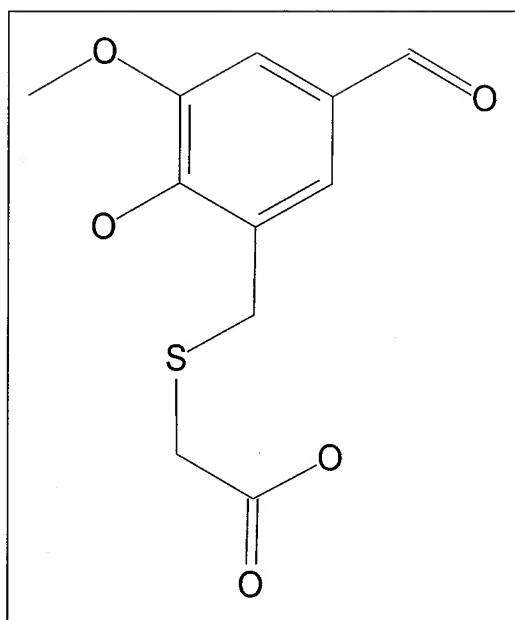
5853919; Journal; Gazit, Aviv; Osherov, Nir; Posner, Israel; Bar-Sinai, Allan; Gilon, Chaim; Levitzki, Alexander; JMCMAR; J. Med. Chem.; EN; 36; 23; 1993; 3556-3564.



Reactant 1



Reactant 2



Product 1

Reaction 2 of 2

Reaction ID

3786999

Reactant BRN

6654842 (5-formyl-2-hydroxy-3-methoxy-benzylsulfanyl)-acetic acid
773697 malononitrile

Product BRN

6661603 [5-(2,2-dicyano-vinyl)-2-hydroxy-3-methoxy-benzylsulfanyl]-acetic acid

No. of Reaction Details

1

Reaction Classification

Preparation

Yield

82 percent (BRN=6661603)

Reagent

piperidine

Solvent

ethanol

Time

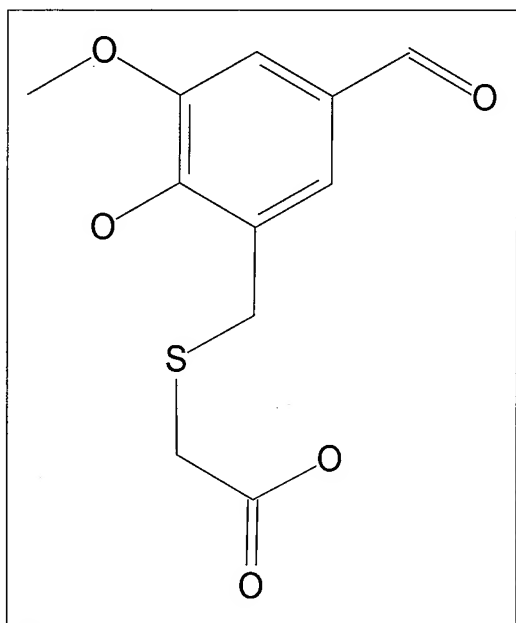
3 hour(s)

Other Conditions
Find similar reactions

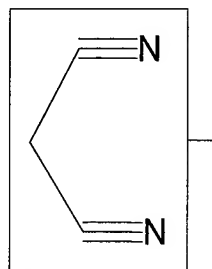
Heating
[click here](#)

Ref. 1

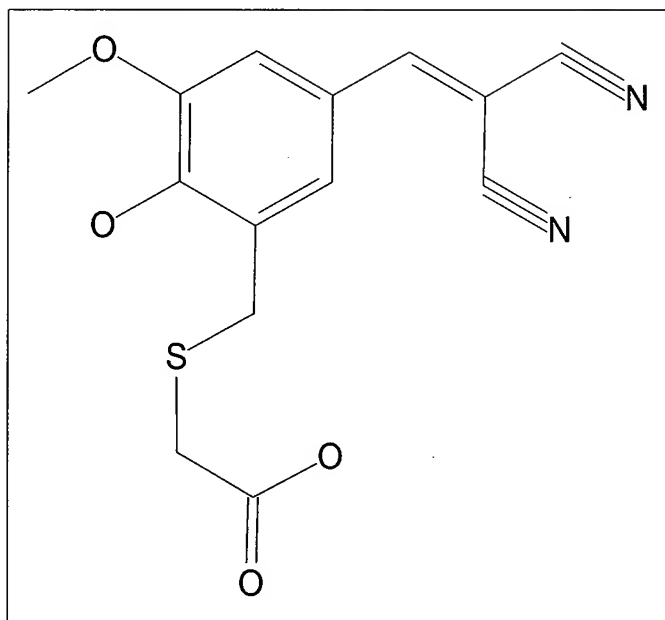
5853919; Journal; Gazit, Aviv; Osherov, Nir; Posner, Israel; Bar-Sinai, Allan; Gilon, Chaim; Levitzki, Alexander; JMCMAR; J. Med. Chem.; EN; 36; 23; 1993; 3556-3564.



Reactant 1



Reactant 2



Product 1

Melting Point

VALUE (MP) C	Solvent (.SOL)	Entry Date	Note	Ref.
130				1

Ref. 1 **5853919**; Journal; Gazit, Aviv; Osherov, Nir; Posner, Israel; Bar-Sinai, Allan; Gilon, Chaim; Levitzki, Alexander; JMCMAR; J. Med. Chem.; EN; 36; 23; 1993; 3556-3564.

NMR Spectroscopy 1 of 2

Description	Chemical shifts
Nucleus	¹ H
Solvents	acetone-d6

Ref. 1 **5853919**; Journal; Gazit, Aviv; Osherov, Nir; Posner, Israel; Bar-Sinai, Allan; Gilon, Chaim; Levitzki, Alexander; JMCMAR; J. Med. Chem.; EN; 36; 23; 1993; 3556-3564.

NMR Spectroscopy 2 of 2

Description	Spin-spin coupling constants
Solvents	acetone-d6

Note 1 ¹H-¹H

Ref. 1 **5853919**; Journal; Gazit, Aviv; Osherov, Nir; Posner, Israel; Bar-Sinai, Allan; Gilon, Chaim; Levitzki, Alexander; JMCMAR; J. Med. Chem.; EN; 36; 23; 1993; 3556-3564.

Reference

5853919; Journal; Gazit, Aviv; Osherov, Nir; Posner, Israel; Bar-Sinai, Allan; Gilon, Chaim; Levitzki, Alexander; JMCMAR; J. Med. Chem.; EN; 36; 23; 1993; 3556-3564.